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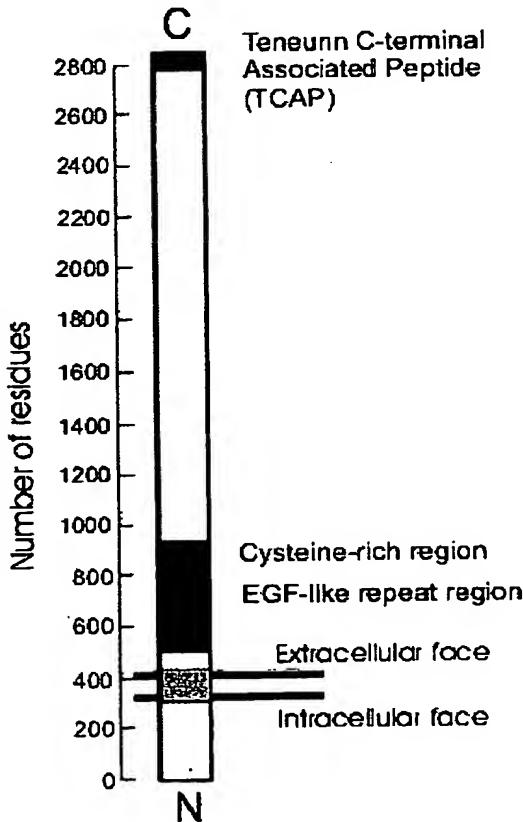
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*[Continued on next page]*

(54) Title: TENEURIN C-TERMINAL ASSOCIATED PEPTIDES (TCAP) AND USES THEREOF



(57) Abstract: The invention provides a novel family of biologically active neuropeptides and the nucleic acid molecules coding for same. The peptides are derived for the C-terminus of the teneurin family peptides (Ten M1-4). These novel peptides, referred to as teneurin C-terminal associated peptides (TCAPs) are active in neuronal communication and are implicated in a number of neuropathologies. They are particularly useful in modulating stress responses and anxiety and in the treatment of cancer.



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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/CA 03/00622

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07K14/435 A61K38/17 C07K16/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	BAUMGARTNER S ET AL: "Tenm, a Drosophila gene related to tenascin, is a new pair-rule gene." THE EMBO JOURNAL. ENGLAND 15 AUG 1994, vol. 13, no. 16, 15 August 1994 (1994-08-15), pages 3728-3740, XP001155366 ISSN: 0261-4189 cited in the application the whole document	1-33
A	WANG X Z ET AL: "Identification of novel stress-induced genes downstream of chop." THE EMBO JOURNAL. ENGLAND 1 JUL 1998, vol. 17, no. 13, 1 July 1998 (1998-07-01), pages 3619-3630, XP002257795 ISSN: 0261-4189 the whole document	1-33

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

### Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA 03/00622

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DGANY ORLY ET AL: "The <i>Drosophila</i> <i>odz/ten-m</i> gene encodes a type I, multiply cleaved heterodimeric transmembrane protein." THE BIOCHEMICAL JOURNAL. ENGLAND 1 MAY 2002, vol. 363, no. Pt 3, 1 May 2002 (2002-05-01), pages 633-643, XP002257796 ISSN: 0264-6021 the whole document ---	1-33
A	CHIQUET-EHRISMANN R: "Gallus gallus mRNA for teneurin-2, short splice variant (ten2 gene) short splice variant;ten2 gene; teneurin-2; Type II transmembrane protein" EMBL, XP002190351 the whole document ---	1-33

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 03/00622

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 19–20 and 22–33 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.